

## **IN THE CLAIMS**

This listing of the claim will replace all prior versions and listings of claim in the present application.

### **Listing of Claims**

Claim 1 (canceled).

2. (currently amended) A Quality of Service (QoS) control system used for a radio transmitter/receiver, comprising:

a QoS control unit for supplying a modulator of said radio transmitter/receiver with transmission data in an order taking QoS into consideration; and

a determining unit connected to said QoS control unit for determining whether a QoS control operation of the transmission data is required or not in accordance with information transmission conditions in an associated radio path,

wherein the QoS control operation of the transmission data by said QoS control unit is performed selectively in accordance with the information transmission conditions in the radio transmission path~~A QoS control system according to Claim 1, and~~

wherein said QoS control unit has a first operation mode for outputting ~~said the~~ transmission data in the ~~an~~ order of input and a second operation mode for outputting ~~said the~~ transmission data in the order taking the QoS into consideration, said first and second operation modes being switchable to each other in accordance with the information transmission conditions in said radio ~~path~~section.

3. (currently amended) A QoS control system according to Claim 2, wherein said QoS control unit includes a comparator for comparing said an information transmission rate for said radio section path with a predetermined threshold value, said QoS control unit being switched to said second operation mode ~~in the case where~~ if said information transmission rate for said radio section path is lower than a predetermined threshold value, said QoS control unit being switched to said first operation mode in the case where said information transmission rate for said radio section is not lower than said predetermined threshold value.

4. (currently amended) A QoS control system according to Claim 3, wherein said QoS control unit has a queue unit for outputting the ~~said~~ transmission data in the order of input in said first operation mode.

5. (currently amended) A QoS control system according to Claim 3, wherein said QoS control unit has a class-wise queue unit for setting the transmission data in a queue in accordance with ~~the~~ a class of said the transmission data in said second operation mode.

6. (currently amended) A QoS control system according to Claim 5, wherein said QoS control unit includes a class-wise band assignment table for setting a ~~guarantee~~ guaranteed band for each class and a read control unit for reading the transmission data from said class-wise queue unit in accordance with said class-wise band assignment table.

7. (currently amended) A QoS control system according to Claim 42, wherein said an information transmission rate for said radio section is obtained from the information on specific bits contained in the received data.

8. (currently amended) A QoS control system according to Claim 42, wherein said QoS control unit has a plurality of QoS control modes, and wherein the QoS control mode to be applied to applicable to the transmission data is switched between said plurality of said QoS control modes in accordance with the an information transmission rate for said radio transmission path section.

9. (currently amended) A QoS control system according to Claim 8, wherein said QoS control unit has a QoS control mode table for defining the a relation between the a range of the transmission rate for said radio transmission path section and the a QoS control mode applicable to the transmission data, and

wherein said QoS control mode applicable to the transmission data is determined in accordance with the information transmission rate for the radio transmission path section with reference to said QoS control mode table.

10. (currently amended) A Quality of Service (QoS) control system used for a radio transmitter/receiver, comprising:

a QoS control unit for supplying a modulator of said radio transmitter/receiver with transmission data in an order taking QoS into consideration; and

a determining unit connected to said QoS control unit for determining whether a QoS control operation of the transmission data is required or not in accordance with information transmission conditions in an associated radio transmission path,

wherein the QoS control operation of the transmission data by said QoS control unit is performed selectively in accordance with the information transmission conditions in the radio transmission path~~A QoS control system according to Claim 8,~~

wherein said QoS control unit has a plurality of QoS control modes,

wherein a QoS control mode to be applied to the transmission data is switched between said plurality of said QoS control modes in accordance with an information transmission rate for said radio transmission path,

wherein said QoS control unit has a classification table showing the correspondence between the a class and a specific QoS control mode defined by of said QoS control mode ~~table~~ modes, and

wherein said classification table defines the a class of each transmission data corresponding to the a value of specific header information contained in said ~~the~~ transmission data, and

wherein said QoS control unit determines the class of the transmission data in said specific QoS control mode with reference to said classification table.

Claim 11 (canceled).

12. (currently amended) A Quality of Service (QoS) control method for a radio transmitter/receiver, comprising:

a first step of determining whether QoS control of transmission data is required or not in accordance with information transmission conditions in an associated radio path;

a second step of supplying the transmission data to a modulator of said radio transmitter/receiver in an order taking QoS into consideration if QoS control operation is required; and

a third step of supplying the transmission data to a modulator in an order of input if said QoS control operation is not required~~A QoS control method for a radio transmitter/receiver according to Claim 11,~~

wherein said second step includes the steps of:

determining ~~the~~ a class of each ~~of said~~ transmission data,

setting said ~~the~~ transmission data in a class-wise queue corresponding to a determined class, and

reading the transmission data from said class-wise queue in accordance with a class-wise band assignment table with a guaranteed band set for each class.

Claims 13-18 (canceled).